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IS 14181-3 (2002): Synthetic (Plastic) Slide Fasteners - Special Purpose, Part 3: Test Report Formats [PGD 14: Consumer Products and Allied Equipments]

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संश्लिष्ट (प्लास्टिक) सरकवां फास्टनर — विशेष प्रयोजन

भाग 3 परीक्षण रिपोर्ट के फारमेट

Indian Standard

SYNTHETIC (PLASTIC) SLIDE FASTENERS — SPECIAL PURPOSE

PART 3 TEST REPORT FORMATS

ICS 61.040; 83.140.01

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

May 2002 **Price Group 3**

Fasteners for Consumer Goods and Hair Cutting, Shaving, Shearing and Allied Equipment Sectional Committee, BP 34

FOREWORD

This Indian Standard (Part 3) was adopted by the Bureau of Indian Standards, after the draft finalized by the Fasteners for Consumer Goods and Hair Cutting, Shaving, Shearing and Allied Equipment Sectional Committee had been approved by the Basic and Production Engineering Division Council.

This standard (Part 3) illustrates formats for the preparation of test reports. This standard is for the purpose of guidance only. The other parts of this standard are:

Part 1 Specification, selection and ordering guideline of the product (*first revision*)
Part 2 Test and measurement methods

While preparing this standard assistance has been derived from the following:

a) Schedule No. CQA, T&C/TC-15/7 for Plastic Slide Fasteners issued by Controllerate of Quality Assurance (Textile and Clothing), Government of India (DGQA, Ministry of Defence).
b) Schedule No. DMSRDE/TEX-2/89/1 for Plastic Slide Fasteners issued by Defence Materials and Stores Research and Development Establishment, Kanpur (DRDO, Ministry of Defence).

[IS 3148 : 1991 'Slide fasteners (general purpose) (*fourth revision*)' was also referred.]

Indian Standard

SYNTHETIC (PLASTIC) SLIDE FASTENERS — SPECIAL PURPOSE

PART 3 TEST REPORT FORMATS

1 SCOPE

This standard (Part 3), illustrates formats for preparation of test reports for guidance.

2 REFERENCES

The following Indian Standards contain provisions which through reference in this text, constitute provision of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

IS No.	*Title*
688 : 1988	Method for determination of colour fastness of textile materials to organic solvents (*first revision*)
690 : 1988	Method for determination of colour fastness of textile materials to sea water (*first revision*)
765 : 1979	Method for determination of colour fastness of textile materials to washing: Test 4 (*second revision*)
971 : 1983	Method for determination of colour fastness of textile materials to perspiration (*first revision*)
2454 : 1985	Method for determination of colour fastness of textile materials to artificial light (xenon lamp) (*first revision*)
14181	Synthetic (plastic) slide fasteners – Special purpose :
(Part 1) : 2002	Specification, selection and ordering guideline of the product (*first revision*)
(Part 2) : 2002	Test and measurement methods

3 FORMATS

3.1 Format A for Visual Examination

3.2 Format B for Physical Parameters and Measurements

3.3 Format C for Security Requirement Tests

3.4 Format D for Performance Requirement Tests

3.5 Format E for Colour Fastness Tests

FORMAT A — VISUAL EXAMINATION

Nomenclature of ordered Slide Fasteners

Product Description	*Ref to Cl of IS 14181 (Part 1)*	*Specification as per Order*	*Actual Supply*	*Results*	
				Meets with Requirements	*Fails*
1. Designation	6	LS/M/MS/H/HS			
2. Operating Arrangements	5	Closed End: Type A/B/E/F/G (or)			
		Open End: Type C/D			
		Reversible: Single / Double puller			
3. Slider Locking Type	4.1.7.1	Autolock/Flat Autolock/Pin Lock/ Non-Lock			
4. Slider Finish	7.2	Painted/Oxidized Plated			
5. Colour	7.4				
6. Length	8.2				
7. Additional Specifications, if any		To mention as applicable			

FORMAT B—PHYSICAL PARAMETERS AND MEASUREMENTS

Specification— Physical Inspection	*Ref to Cl of IS 14181 (Part 1)*	*Specified Value*	*Actual Value*	*Results*	
				Meets with Specification	*Fails*
I. Dimensions					
1. Textile Chain Width	8.1			☐	☐
2. Textile Chain Thickness	8.1			☐	☐
3. Exposed Tape Width	8.1			☐	☐
4. Tape Extension	8.1			☐	☐
5. Puller Length	8.1			☐	☐
II. Construction Details					
1. Tape	7.1				
a) Warp — No. of Ends				☐	☐
— Denier of Yarn				☐	☐
b) Weft — Picks/cm				☐	☐
— Denier of Yarn				☐	☐
c) Breaking Strength				☐	☐
d) Width				☐	☐
2. Lace	7.1				
a) Warp — No. of Ends				☐	☐
— Denier of Yarn				☐	☐
b) Weft — Picks/cm				☐	☐
— Denier of Yarn				☐	☐
c) Width				☐	☐
3. Monofilament Diameter	8.1			☐	☐

FORMAT C — SECURITY REQUIREMENT TESTS

Specification— Test Requirement	*Ref to Sl No. in Table 4 of IS 14181 (Part 1)*	*Testing Method in accordance with IS 14181 (Part 2)*	*Specified Value (Load/Cycles)*	*Actual Value (Load/Cycles)*	*Results*	
					Meets with Specification	*Fails*
Security of Interlocking of Textile Chain to Lateral Load	(i)	Annex B			☐	☐
Fold Over Security of Textile Chain for a) Obverse fold b) Reverse fold	(ii)	Annex C			☐	☐
Security of Attachment of Top Stop (All Types)	(iii)	Annex D			☐	☐
Security of Attachment of Bottom Stop	(iv)	Annex E			☐	☐
Security of Attachment of Retainer-Longitudinal Load (Open-End)	(v)	Annex F			☐	☐
Security of Attachment of Retainer to Lateral Load (Open-End)	(vi)	Annex G			☐	☐
Security of Attachment of Puller to Slider	(vii)	Annex H			☐	☐
Security of Slider Lock Holding	(viii)	Annex J			☐	☐

FORMAT D — PERFORMANCE REQUIREMENT TESTS

Specification— Test Requirement	*Ref to SI No. in Table 5 of IS 14181 (Part 1)*	*Testing Method in Accordance with IS 14181 (Part 2)*	*Specified Value (Load/Cycles)*	*Actual Value (Load/Cycles)*	*Results*	
					Meets with Specification	*Fails*
Reciprocating Movement of Slider under Load	(i)	Annex K	1 000 cycles		☐	☐
Resistance to Abrasion under Load (Cycles)	(ii)	Annex L			☐	☐
Resistance to Heat under Load	(iii)	Annex M	250 cycles		☐	☐
Remeshability of Fastener	(iv)	Annex N	Remeshable		☐	☐

FORMAT E — COLOUR FASTNESS TESTS

Specification— Test Requirement	*Ref to Sl No. in Table 6 of IS 14181 (Part 1)*	*Testing Method in Accordance with*	*Specified Value*	*Actual Value*	*Results*	
					Meets with Specification	*Fails*
Light	(i)	IS 2454	4 or better		☐	☐
Perspiration	(ii)	IS 971	4 or better		☐	☐
Sea Water	(iii)	IS 690	4 or better		☐	☐
Washing	(iv)	IS 765	4 or better		☐	☐
Organic Solvents	(v)	IS 688	4 or better		☐	☐

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